

Applicants: Lee et al.
Serial No.: 10/777,023
Filing Date: February 10, 2004
Docket No.: ZIL-571

Amendments to the Specification:

Please replace paragraph [0005] with the following replacement paragraph:

[0005] Not only does knowledge of codesets constitute a competitive advantage to a microcontroller manufacturer, but knowledge of codesets is also of value to remote control manufacturers and providers of codeset database services. An unscrupulous remote control manufacturer has an incentive to purchase microcontrollers cheaply without preloaded codesets, and then to load copied codesets that were assembled and compiled by a microcontroller manufacturer. In this way the remote control manufacturer can avoid paying for the collection ~~codesets~~costs borne by the microcontroller manufacturer. In a similar fashion, a provider of codeset database services also has an incentive to provide services using copied codesets that were assembled and compiled by a microcontroller manufacturer.

Please replace paragraph [0055] with the following replacement paragraph:

[0055] In step 42 of figure 3, selection and development tool 10 selects a plurality of codesets from among the groups of codesets indicated in screens 62, 63, 70 and 71. Selection and development tool 10 ~~selects~~selects the plurality of codesets using the designations of choices of selection criteria received from developer 31 in step 41. For example, RC Builder application 30 selects from among the group of codesets that are used in Europe only those codesets that also apply to device types designated in

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window 64 of screen 63 (figure 8), apply to device brands designated in window 72 of screen 71 (figure 11) and fit the memory limitations designated in screen 70 (figure 10). Finally, the plurality of codesets selected from among the groups of codesets presented to developer 31 can be further limited by adding or removing codesets for specific device models. In step 42, all of the codesets that are to be supported by the new remote control device are determined.

Please replace paragraph [0070] with the following replacement paragraph:

[0070] Compiled signal engine 103 executes within microcontroller 101 upon separate strings of timing information to generate operational signals for separate functions. For example, an operational signal for the function "power on" is generated from first string of timing information 88, whereas a second operational signal for the function "play DVD" is generated using the second string of timing information 89. In the same way that compiled signal engine 103 uses first string of timing information 88 to generate a operational signals, so too can compiled signal engine 103 use the custom string of timing information to generate a custom operational signal. The operational signals are transmitted from an infrared light emitting diode (LED) on microcontroller development board 14. In operation, when microcontrollers are loaded into remote control devices, the operational signals are transmitted from LEDs on the remote control devices.

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Please replace paragraph [0073] with the following replacement paragraph:

[0073] In another example, signal engine 97 is implemented in modules. If the functionality of a module is not required, then the module is not used in the source code of signal engine 97. When the selection of modules to be included in signal engine 97 is finalized by selection and development tool 10, the ~~modules-necessary~~ modules and the other "glue" portion of signal engine 97 ~~is~~are sent to web client 13. Accordingly, a small signal engine 97 is created that has the needed functionality, but that does not have unnecessary capability not required to implement the selected codesets.